

# MULTI-MODE UNINTERRUPTIBLE POWER SUPPLIES AND METHODS OF OPERATION THEREOF

## ABSTRACT OF THE DISCLOSURE

An uninterruptible power supply apparatus includes a first bidirectional power converter circuit having first and second ports and a second bidirectional power converter circuit having first and second ports. The apparatus further includes a DC link that couples the second port of the first bidirectional power converter circuit to  
5 the first port of the second bidirectional power converter circuit. A first load port is coupled to the second port of the second bidirectional power converter circuit and a second load port is coupled to the first port of the first bidirectional power converter circuit. The apparatus further includes a control circuit that is configured to control the first and second bidirectional power converter circuits such that each of the first  
10 and second bidirectional power converter circuits can generate and/or condition AC power at each of the first and second load ports.